philips dynalite ())

DDNP1501 15v DC network power supply Installation Manual



features

- 0.24A Single Phase Supply
- 15V DC Regulated Output
- Output is Short Circuit Proof
- Enclosure is DIN Rail Mount with Circuit Breaker Profile
- **Simple Installation** DIN Rail mount facilitates installation. All connection terminals are accessible without disassembly



To reduce the risk of fire or electric shock, do not expose this device to rain or moisture. Do not energise unless the front cover is in place. This device must be earthed. Installation, programming and maintenance must be carried out by qualified personnel.

Warning – This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Read Instructions – We recommend that you read this Instruction Manual prior to commencement of installation.

Power Sources – This device should only be operated from the type of supply specified on the front cover. This device *must* be earthed.

Output – The load on this device should not exceed the specified capacity of 1.5A. This device should be fed via a HRC fuse or MCB.

Mounting Location – Install in a dry, well-ventilated location. Controllers may emit some mechanical noise. Take this into account when deciding the mounting location. Data Cable – Use screened, stranded RS485 data cable with three twisted pairs. Segregate from mains cables by 300mm minimum. Connect devices in a 'daisy chain'. A data cable that is connected to an energised device is live. Do not cut or terminate live data cables.

installation steps

- 1. Mount the device on a DIN rail inside an approved enclosure.
- 2. Connect a single phase 0.25A feed to the control circuit supply terminals. This device must be earthed.
- Connect the two power conductors of data cables to the device. There are two common methods of doing this:
 a) Method 1: Use a 2 core cable to connect between the DDNP1501 and the data cable connector on a device that is connected to the network. Parallel connect the GND and +12V terminals on the DDNP1501 to the GND and +12V terminals on the network device.

b) **Method 2**: Loop the network cable to the DDNP1501 and connect the Green pair to GND terminal and Orange pair to +12V terminal. Ensure that the other conductors are looped through using a suitable terminal block.

Electrical Diagram



Connecting Data Cable



product specifications

Supply:

Load Outputs:

User Controls:

Compliance:

Construction:

Dimensions: Weight:

Protection:

110 - 240V AC 50/60Hz Single Phase at 0.24A 15 Volt DC @ 1.5 Amps (@230V supply), 15 Volt DC @ 1.0 Amps (@110V supply) Electrical Design: Switchmode Self resetting overload protection. Short circuit proof, Automatic thermal shutdown **Supply Terminals:** Line, Neutral, Earth, 1 x 2.5mm2 max conductor size LED power indicator on front panel 0V, +15V, 1 x 2.5mm2 max conductor size, Loop terminals provided for DyNet Shield, D-, D+ **Output Terminals:** CE, C-Tick **Operating Environment:** 0° to 50°C ambient temperature, 0% to 95% RH non condensing Polycarbonate DIN rail enclosure, 6 units wide H 93mm x W 105mm x D 75mm Packed weight 0.2kg

DDNP1501 Instruction Manual Rev H.doc Specifications subject to change without notice Dynalite manufactured by WMGD Pty Ltd (ABN 33 097 246 921) Unit 6, 691 Gardeners Road Mascot NSW 2020 Australia Tel: +61 2 8338 9899 Fax: +61 2 8338 9333

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